



United States Department of the Interior

FISH AND WILDLIFE SERVICE

646 Cajundome Blvd.

Suite 400

Lafayette, Louisiana 70506

COPY

October 24, 2007

original to

Topic file

copy to

adm / m

Killeen

2007 OCT 29 AM 11:45

DEQ - CES

Dr. Chuck Carr Brown
Assistant Secretary
Louisiana Dept. of Environmental Quality
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

Dear Dr. Brown:

Please reference our March 22, 1996, Memorandum of Understanding (MOU) with the Louisiana Department of Environmental Quality (LDEQ) regarding federally listed threatened and endangered species, and the Louisiana Pollutant Discharge Elimination System (LPDES) program. In accordance with the terms of that MOU, the U.S. Fish and Wildlife Service (Service) is pleased to provide LDEQ with the enclosed current list of sensitive areas (i.e., waters deemed important for the conservation of threatened and endangered species).

In September 1996, our agencies developed an implementation strategy for the Scope-of-Work section of the subject MOU. That strategy (updated in February 1997, September 1997, September 1998, September 1999, October 2000, September 2001, September 2002, September 2003, September 2004, October 2005, and September 2006) included a list of sensitive areas, types of permits, notices of intent (NOI), substances of concern, and listed species for which the Service has requested coordination. As we have done in the past, the Service intends to continue that implementation strategy (enclosed) for the upcoming federal fiscal year (October 2007 through September 2008). As discussed at our October 5, 2007, meeting, we have included updated sensitive areas for federally listed threatened and endangered species, and their critical habitats based on updated occurrence information. We have also enclosed some specific species information that should provide additional guidance in determining whether LDEQ should coordinate with the Service for certain permitted discharges to sensitive waterbodies.

The Service appreciates the continuing cooperation of LDEQ in the conservation of federally listed species. If you or your staff have any comments or require further information, please have them contact Ms. Brigitte Firmin (337/291-3108) of this office.

Sincerely,

James F. Boggs
James F. Boggs
Acting Supervisor
Louisiana Field Office

RECEIVED

OCT 30 2007

WATER PERMITS DIVISION/ADMIN

**2007-2008 Implementation Strategy for the
Louisiana Department of Environmental Quality
and the U.S. Fish and Wildlife Service
Memorandum of Understanding**

Section II. Scope of Work

Section II.1 LDEQ and the Service will follow the procedures described in the MOU. The Service, by November 1, 2007, will provide LDEQ a list of all federally listed threatened and endangered species in Louisiana that are dependant on aquatic habitat. (Bolded species and/or subsegments are 2007-2008 additions.)

<u>Species</u>	<u>Subsegments</u>
Alabama (= inflated) heelsplitter	040302, 090201, 090202
Fat pocketbook	070101
Gulf sturgeon, critical habitat	040102, 040103, 040301 , 040302, 040303, 040304, 040305, 040401, 040402 , 040501-040503, 040505, 040601 , 040602, 040604, 040701-040704, 040801-040804, 040901 , 040902, 040904, 040905, 040906, 040908 , 040910, 041001, 041002, 041701, 041702 , 041703, 041704, 042001, 042003, 042201, 042203-042206, 090101-090107, 090201-090208, 090301, 090401, 090501, 090506
Louisiana pearlshell	060208, 060209, 101301, 101302
Louisiana quillwort	040804, 040904, 090501, 090506
Pallid sturgeon	010101, 010201, 010501, 010502, 010801-010803, 070101, 070201, 070301, 070502, 100201
Pink mucket pearly mussel	080401, 080402
Ringed map (= sawback) turtle	090101-090107 (excluding 090104), 090201-090207, 090501
West Indian manatee	040302, 040403, 040601, 040602 , 040911, 041001, 041002, 041704, 042001, 042101, 042202

Section II.2 LDEQ and the Service will follow the procedures described in the MOU except that the Service will only request coordination on those permits that fall into one or more of the following four categories:

1. The proposed permit occurs in a subset of sensitive waters defined as those subsegments where the following species occur, and the regulated discharge **contains one or more of the listed below substances:**

<u>Species</u>	<u>Subsegments</u>
Alabama (= inflated) heelsplitter	040302, 090201, 090202
Fat pocketbook	070101
Gulf sturgeon, critical habitat	040102, 040103, 040301, 040302, 040303, 040304, 040305, 040401, 040402, 040501-040503, 040505, 040601, 040602, 040604, 040701-040704, 040801-040804, 040901, 040902, 040904, 040905, 040906, 040908, 040910, 041001, 041002, 041701, 041702, 041703, 041704, 042001, 042003, 042201, 042203-042206, 090101-090107, 090201-090208, 090301, 090401, 090501, 090506
Louisiana pearlshell	060208, 060209, 101301, 101302
Pallid sturgeon	010101, 010201, 010501, 010502, 010801-010803, 070101, 070201, 070301, 070502, 100201
Pink mucket pearly mussel	080401, 080402
Ringed map (= sawback) turtle	090101-090107 (excluding 090104), 090201-090207, 090501
West Indian manatee	040302, 040403, 040601, 040602 , 040911, 041001, 041002, 041704, 042001, 042101, 042202

Substances

Endosulfan
Hexachlorobenzene

2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)
Arsenic
Chromium III
Chromium VI
Zinc
Cadmium
Copper
Lead
Mercury
Nickel
Cyanide
Pentachlorophenol (PCP); or

2. The proposed permit is for a **sanitary sewage treatment facility (not covered under a General Permit for Class I, II, III, or IV Sanitary Dischargers) and is located in the sensitive areas described in Section II.2.1;** or
3. The proposed permit is for a **landfill (other than those covered under Construction/Demolition Debris and Woodwaste Landfill [LAG780000] and Municipal Solid Waste Landfill [LAG660000] General Permits) and is located in the subset of sensitive areas described in Section II.2.1;** or
4. The proposed permit is for a **facility applying for coverage under the General Permit for Cement, Concrete, and Asphalt Facilities (LAG110000) and is located in the sensitive areas described in Section II.2.1;** or
5. The proposed permit is for an **electrical generating facility located in the sensitive areas described in Section II.2.1;** or
6. The proposed permit is for a **sand and gravel operation (including those applying for coverage under the General Permit for Sand and Gravel Extraction Facilities [LAG490000]) and is located in a subset of sensitive waters expected to support the Louisiana quillwort (subsegments 040804, 040904, 090501, 090506), the Alabama heelsplitter mussel, the Louisiana pearlshell mussel, the fat pocketbook mussel, the pink mucket pearly mussel, the Gulf sturgeon, the pallid sturgeon, or the ringed map turtle;** or,
7. The proposed permit is for a **facility utilizing a cooling water intake structure that is regulated under §316(b) of the Clean Water Act and is located in the sensitive areas described in Section II.2.1.**

If a proposed permit falls into one or more of the above categories, the proposed discharge may affect a listed species and coordination should be initiated with the Service to: (1) determine if an adverse effect exists, and (2) explore ways to remove the effect.

Because hydrologic subsegments often cover large geographic areas, it is expected (for species with restricted distributions) that some proposed permits located in sensitive areas may not affect a species because the species is not actually present at that proposed discharge site. However, if an effect exists and that effect can be removed, a "not likely to adversely affect" determination will be made by LDEQ on the modified permit and submitted to the Service for concurrence. If no agreement can be reached between the Service and LDEQ, procedures for consulting with EPA as outlined in the MOU will be followed.

Based on LDEQ effluent limitations established for the protection of aquatic life and maintenance of the receiving waters as aquatic habitat, proposed permits not falling into those above-described categories are not likely to adversely affect listed species; therefore, no coordination with the Service is required.

Section II.3 LDEQ and the Service will follow the procedures described in the MOU. Based on effluent limitations established for the protection of aquatic life and maintenance of the receiving waters as aquatic habitat, the Service has determined that the following general permits are not likely to adversely affect listed species; and therefore, no coordination is required:

- Automotive Facilities and/or Repair Shops (LAG470000)
- C & D Landfills (LAG780000)
- Concentrated Animal Feeding Operations (LAG010000)
- Dewatering Petroleum Tanks (LAG300000)
- Exterior Vehicle Wash Wastewater (LAG750000)
- Hydrostatic Test Wastewater (LAG670000)
- Light Commercial Facilities (LAG480000)
- Multi-Sector General Stormwater (LAR050000)
- Municipal Solid Waste Landfills (LAG660000)
- Oil and Gas Activities (LAG330000)
- Petroleum UST Systems Cleanup (LAG830000)
- Potable Water Treatment Plants (LAG380000)
- Sanitary Discharge Class I (LAG530000)
- Sanitary Discharge Class II (LAG540000)
- Sanitary Discharge Class III (LAG560000)
- Sanitary Discharge Class IV (LAG570000)
- Small Municipal Separate Storm Sewer Systems (LAR040000)
- Storm Water for Construction Activities (LAR100000)
- Storm Water for Small Construction Activities (LAR200000)
- Treated Groundwater (LAG940000)

Section II.4 LDEQ and the Service will follow the procedures outlined in this section. LDEQ will send a list of anticipated renewals for all permits falling in all sensitive areas as defined under Section II.1, and all other information as detailed in this section.

Section II.5 LDEQ and the Service will follow the procedures described in the MOU.

THREATENED AND ENDANGERED SPECIES OF LOUISIANA

E=Endangered T=Threatened C=Candidate CH=Critical Habitat PCH=Proposed Critical Habitat *

<u>PARISH[†]</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>ALLEN</u>			
CHAFF-SEED, AMERICAN	KNOWN	PLANT	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>ASCENSION</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>AVOYELLES</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
<u>BEAUREGARD</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>BIENVILLE</u>			
SNAKE, LOUISIANA PINE	KNOWN	REPTILE	C
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>BOSSIER</u>			
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>CADDO</u>			
EARTH FRUIT	KNOWN	PLANT	T
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>CALCASIEU</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>CAMERON</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>CATAHOULA</u>			
STURGEON, PALLID	POSSIBLE	FISH	E
<u>CONCORDIA</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>DESOTO</u>			
EARTH FRUIT	POSSIBLE	PLANT	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>EAST BATON ROUGE</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
STURGEON, GULF	KNOWN	FISH	T
STURGEON PALLID	KNOWN	FISH	E
<u>EAST CARROLL</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
MUSSEL, FAT POCKETBOOK PEARLY	KNOWN	MOLLUSC	E
STURGEON, PALLID	KNOWN	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
<u>EAST FELICIANA</u>			
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>EVANGELINE</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>FRANKLIN</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
<u>GRANT</u>			
MUSSEL, LOUISIANA PEARLSHELL	KNOWN	MOLLUSC	T
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>IBERIA</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
PELICAN, BROWN	KNOWN	BIRD	E
STURGEON, GULF	POSSIBLE	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>IBERVILLE</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
STURGEON, GULF	POSSIBLE	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>JACKSON</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>JEFFERSON</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T, CH
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>LAFOURCHE</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	POSSIBLE	FISH	T
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>LA SALLE</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>LIVINGSTON</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
STURGEON, GULF	KNOWN	FISH	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>MADISON</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
<u>MOREHOUSE</u>			
MUSSEL, PINK MUCKET PEARLY	KNOWN	MOLLUSC	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>NATCHITOCHES</u>			
SNAKE, LOUISIANA PINE	KNOWN	REPTILE	C
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>ORLEANS</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
STURGEON, GULF	KNOWN	FISH	T, CH
STURGEON, PALLID	KNOWN	FISH	E
<u>OUACHITA</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>PLAQUEMINES</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>POINTE COUPEE</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
<u>RAPIDES</u>			
MUSSEL, LOUISIANA PEARLSHELL	KNOWN	MOLLUSC	T
STURGEON, PALLID	POSSIBLE	FISH	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>RED RIVER</u>			
STURGEON, PALLID	POSSIBLE	FISH	E
TERN, LEAST INTERIOR	KNOWN	BIRD	E
<u>RICHLAND</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
<u>SABINE</u>			
SNAKE, LOUISIANA PINE	KNOWN	REPTILE	C
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>ST. BERNARD</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T, CH
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>ST. CHARLES</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>ST. HELENA</u>			
STURGEON, GULF	KNOWN	FISH	T
MUSSEL, ALABAMA HEELSPLITTER	KNOWN	MOLLUSC	T
<u>ST. JAMES</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
STURGEON, GULF	POSSIBLE	FISH	T
STURGEON, PALLID	KNOWN	FISH	E

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>ST. JOHN THE BAPTIST</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
STURGEON, GULF	KNOWN	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
<u>ST. LANDRY</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
<u>ST. MARTIN</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
<u>ST. MARY</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	POSSIBLE	FISH	T
STURGEON, PALLID	KNOWN	FISH	E
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T
<u>ST. TAMMANY</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
QUILLWORT, LOUISIANA	KNOWN	PLANT	E
STURGEON, GULF	KNOWN	FISH	T, CH
TORTOISE, GOPHER	KNOWN	REPTILE	T
TURTLE, RINGED MAP	KNOWN	REPTILE	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>TANGIPAHOA</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	POSSIBLE	BIRD	E
STURGEON, GULF	KNOWN	FISH	T
TORTOISE, GOPHER	KNOWN	REPTILE	T
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>TENSAS</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
TERN, INTERIOR LEAST	KNOWN	BIRD	E
<u>TERREBONNE</u>			
MANATEE, WEST INDIAN	POSSIBLE	MAMMAL	E
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	KNOWN	FISH	T
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY SEA	KNOWN	REPTILE	E
TURTLE, LEATHERBACK SEA	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD SEA	KNOWN	REPTILE	T

<u>PARISH</u>	<u>OCCURRENCE</u>	<u>GROUP</u>	<u>STATUS</u>
<u>UNION</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>VERMILLION</u>			
PELICAN, BROWN	KNOWN	BIRD	E
PLOVER, PIPING	KNOWN	BIRD	T, CH
STURGEON, GULF	POSSIBLE	FISH	T
TURTLE, GREEN SEA	KNOWN	REPTILE	T
TURTLE, HAWKSBILL SEA	KNOWN	REPTILE	E
TURTLE, KEMP'S RIDLEY	KNOWN	REPTILE	E
TURTLE, LEATHERBACK	KNOWN	REPTILE	E
TURTLE, LOGGERHEAD	KNOWN	REPTILE	T
<u>VERNON</u>			
SNAKE, LOUISIANA PINE	KNOWN	REPTILE	C
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>WASHINGTON</u>			
QUILLWORT, LOUISIANA	KNOWN	PLANT	E
STURGEON, GULF	KNOWN	FISH	T, CH
TORTOISE, GOPHER	KNOWN	REPTILE	T
TURTLE, RINGED MAP	KNOWN	REPTILE	T
<u>WEBSTER</u>			
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E
<u>WEST BATON ROUGE</u>			
STURGEON, PALLID	KNOWN	FISH	E
<u>WEST CARROLL</u>			
BEAR, LOUISIANA BLACK	KNOWN	MAMMAL	T, PCH
<u>WEST FELICIANA</u>			
BEAR, LOUISIANA BLACK	POSSIBLE	MAMMAL	T, PCH
STURGEON, PALLID	KNOWN	FISH	E
<u>WINN</u>			
EARTH FRUIT	KNOWN	PLANT	T
STURGEON, PALLID	POSSIBLE	FISH	E
WOODPECKER, RED-COCKADED	KNOWN	BIRD	E

* Endangered - any species which is in danger of extinction throughout all or a significant portion of its range.

Threatened - any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

Candidate - plant and animal taxa considered for possible addition to the List of Endangered and Threatened Species. These are taxa for which the Service has on file sufficient information on biological vulnerability and threat(s) to support issuance of a proposal to list, but issuance of a proposed rule is currently precluded by higher priority listing actions.

Critical Habitat - for listed species consists of: (1) the specific areas within the geographical area occupied by the species, at the time it is listed in accordance with the provisions of section 4 of the Act, on which are found those physical or biological features (constituent elements) (a) essential to the conservation of the species and (b) which may require special management considerations or protection; and (2) specific areas outside the geographical area occupied by the species at the time it is listed in accordance with the provisions of section 4 of the Act, upon a determination by the Secretary that such areas are essential for the conservation of the species.

Proposed Critical Habitat – habitat proposed in the Federal Register to be designated as critical habitat, or habitat proposed to be added to an existing critical habitat designation, under section 4 of the Act for any listed or proposed species.

† If a Parish is not listed here, there are no known occurrences of a threatened, endangered, or candidate species, or their critical habitat, for that Parish.

THREATENED AND ENDANGERED SPECIES

MAMMALS

Bear, Louisiana (<i>Ursus americanus luteolus</i>)	Threatened	Entire state
Manatee, West Indian (<i>Trichechus manatus</i>)	Endangered	Lake Pontchartrain & tributaries on North shore; rare along Gulf coast
Panther, Florida (<i>Felis concolor coryi</i>)	Endangered ¹	Entire state
Whale, finback (<i>Balaenoptera physalus</i>)	Endangered	Coastal waters
Whale, humpback (<i>Megaptera novaeangliae</i>)	Endangered	Coastal waters
Whale, right (<i>Eubalaena glacialis</i>)	Endangered	Coastal waters
Whale, sei (<i>Balaenoptera borealis</i>)	Endangered	Coastal waters
Whale, sperm (<i>Physeter catodon</i>)	Endangered	Coastal waters
Wolf, red (<i>Canis rufus</i>)	Endangered ¹	Cameron and Calcasieu Parishes

BIRDS

Curlew, Eskimo (<i>Numenius borealis</i>)	Endangered ¹	Entire state
Pelican, brown (<i>Pelecanus occidentalis</i>)	Endangered	Coast
Plover, piping (<i>Charadrius melodus</i>)	Threatened	Coast
Tern, interior least (<i>Sterna antillarum</i>)	Endangered	Mississippi River, north of Baton Rouge; Red River, north of Shreveport & Loggy Bayou
Warbler, Bachman's (<i>Vermivora bachmanii</i>)	Endangered ²	Entire state
Woodpecker, ivory-billed (<i>Campephilus principalis</i>)	Endangered ¹	Entire state
Woodpecker, red-cockaded (<i>Picoides borealis</i>)	Endangered	Entire state except Delta

REPTILES

Alligator, American (<i>Alligator mississippiensis</i>)	Threatened (S/A) ³	Entire state
Snake, Louisiana pine (<i>Pituophis ruthveni</i>)	Candidate	Bienville, Natchitoches, Sabine, and Vernon Parishes
Tortoise, gopher (<i>Gopherus polyphemus</i>)	Threatened	Washington, St. Tammany, and Tangipahoa Parishes
Turtle, Kemp's (Atlantic) ridley sea (<i>Lepidochelys kempii</i>)	Endangered	Coastal waters
Turtle, green sea (<i>Chelonia mydas</i>)	Threatened	Coastal waters
Turtle, hawksbill sea (<i>Eretmochelys imbricata</i>)	Endangered	Coastal waters
Turtle, leatherback sea (<i>Dermochelys coriacea</i>)	Endangered	Coastal waters
Turtle, loggerhead sea (<i>Caretta caretta</i>)	Threatened	Coastal waters
Turtle, ringed map (=sawback) (<i>Graptemys oculifera</i>)	Threatened	Pearl and Bogue Chitto Rivers

FISH

Sturgeon, Gulf (<i>Acipenser oxyrhynchus desotoi</i>)	Threatened	Pearl River & Lake Pontchartrain tributaries
Sturgeon, pallid (<i>Scaphirhynchus albus</i>)	Endangered	Mississippi River & tributaries

INVERTEBRATES

Mussel, fat pocketbook pearly (<i>Potamilus capax</i>)	Endangered	Mississippi River
Mussel, Alabama heelsplitter (=inflated) (<i>Potamilus inflatus</i>)	Threatened	Amite River
Mussel, Louisiana pearlshell (<i>Margaritifera hembeli</i>)	Threatened	Bayou Boeuf and Bayou Rigolette drainages Rapides and Grant Parishes
Mussel, pink mucket pearly (<i>Lampsilis abrupta</i>)	Endangered	Bayou Bartholomew

PLANTS

American chaff-seed (<i>Schwalbea americana</i>)	Endangered	Allen Parish
Earth fruit (<i>Geocarpon minimum</i>)	Threatened	Winn and Caddo Parishes
Louisiana quillwort (<i>Isoetes louisianensis</i>)	Endangered	Washington and St. Tammany Parishes

¹ The Florida panther, red wolf, Eskimo curlew, and ivory-billed woodpecker are presumed to be extinct in the state.

² There has been no confirmed Bachman's Warbler U.S. nesting ground sighting since the mid-1960s, however, several sightings of the species have occurred on wintering grounds during the last decade. This species may be extirpated in Louisiana.

³ For law enforcement purposes the alligators in Louisiana are classified as "Threatened due to Similarity of Appearance." They are biologically neither endangered nor threatened. Regulated harvest is permitted under State law. September 21, 1998